

**In the Claims**

1. (currently amended) An acetabular reamer for cutting a required overall cut shape defining a profile, comprising a cutting shell having a series of cutting teeth thereon, wherein substantially all the teeth have a matched arc cutting edge of substantial length connected to the shell by adjacent rise portions, the matched arc cutting edge defining a segment of a longer, single matching curve which makes up at least a portion of the ~~having a cutting profile which matches the profile of the overall cut shape to be cut, the segment, when combined with that of at least one other tooth on the reamer, making up at least a portion of the cutting profile to be cut,~~ thereby reducing a number of teeth required to cut the shape

2. (original) The reamer of claim 1 wherein a generally circular hole precedes the cutting edges as the reamer is rotated for cutting.

3. (original) The reamer of claim 1, wherein the series of cutting teeth are arranged uniformly and spaced apart on the cutting shell.

4. (original) The reamer of claim 1, wherein the cutting teeth are arranged in a spiral arrangement on the cutting shell.

5. (previously presented) The reamer of claim 1, wherein the cutting shell is a portion of a sphere in which the length of the cutting edges are selected so as to completely cut the shape, thereby enabling the use of fewer teeth than permissible with a cutting shell that has a more complete hemispherical shape.

6. (original) The reamer of claim 5, wherein the cutting shell is a hemisphere or portion thereof.

7. (original) The reamer of claim 2, wherein the series of cutting teeth are arranged uniformly and spaced apart on the cutting shell.

8. (original) The reamer of claim 2, wherein the cutting teeth are arranged in a spiral arrangement on the cutting shell.

9. (original) The reamer of claim 3, wherein the cutting teeth are arranged in a spiral arrangement on the cutting shell.

10. (previously presented) The reamer of claim 2, wherein the cutting shell is a portion of a sphere in which the length of the cutting edges are selected so as to completely cut the shape, thereby enabling the use of fewer teeth than permissible with a cutting shell that has a more complete hemispherical shape.

11. (previously presented) The reamer of claim 3, wherein the cutting shell is a portion of a sphere in which the length of the cutting edges are selected so as to completely cut the shape, thereby enabling the use of fewer teeth than permissible with a cutting shell that has a more complete hemispherical shape.

12. (previously presented) The reamer of claim 4, wherein the cutting shell is a portion of a sphere in which the length of the cutting edges are selected so as to completely cut the shape, thereby enabling the use of fewer teeth than permissible with a cutting shell that has a more complete hemispherical shape.